No. 744,604. PATENTED NOV. 17, 1903.

H. M. PILKINGTON.

ADJUSTABLE SECURING MEANS.

APPLICATION FILED JAN. 10, 1903.

NO MODEL.

Fig. 3.

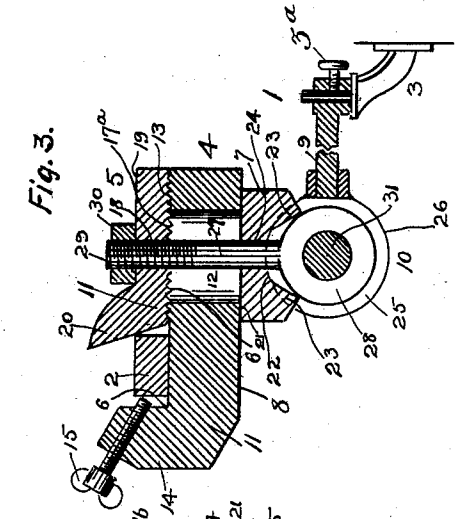


Fig. 2.

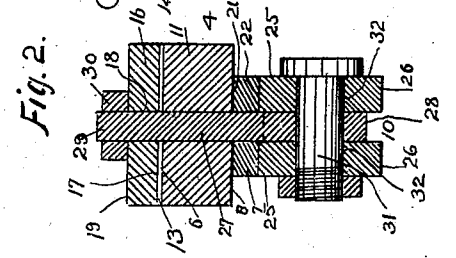
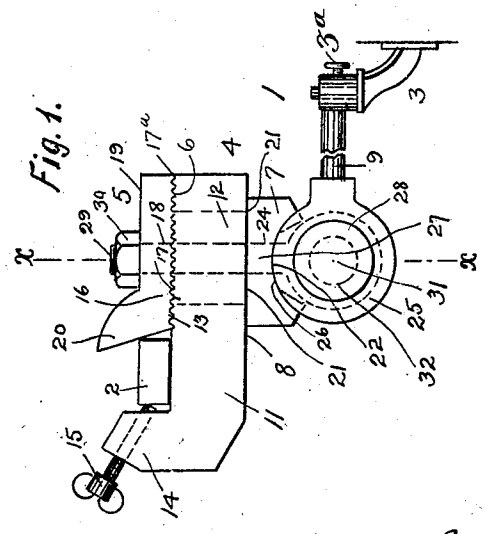


Fig. 1.



Witnesses
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By his Attorney,
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No. 744,604. Patented November 17, 1903.

UNITED STATES PATENT OFFICE.

HERBERT M. PILKINGTON, OF NEW YORK, N. Y.

ADJUSTABLE SECURING MEANS.

SPECIFICATION forming part of Letters Patent No. 744,604, dated November 17, 1903.

Application filed January 10, 1903. Serial No. 138,484. (No model.)

To all whom it may concern:

Be it known that I, HERBERT M. PILKINGTON, a citizen of the United States, residing at New York, county of New York, and State of New York, have invented certain new and useful Improvements in Adjustable Securing Means, of which the following is a specification.

This invention relates to adjustable securing means; and it has for its object to provide improved means of this class, whereby devices and articles of various description and utility may be conveniently and adjustably supported or suspended in operative or other position, which will be positive in action, convenient in attachment and manipulation, relatively simple and inexpensive in construction, and generally superior in point of efficiency.

In the accompanying drawings, which form part of this specification and in which corresponding parts in the several views are designated by the same reference characters, Figure 1 is a side elevation of securing means embodying the present invention, the same being illustrated as applied to a suitable support and in turn supporting a bracket, which is shown for the purpose of illustrating the function of the invention. Fig. 2 is a transverse sectional view taken upon the line X X, Fig. 1; and Fig. 3 is a similar view taken at right angles to the section plane of Fig. 2.

Referring with particularity to the drawings, 1 designates the improved securing means, which are shown as applied to a bar or support 2 and as in turn supporting a bracket 3, adapted to receive the device or article in connection with which the securing means 1 may be employed.

The securing means 1 comprise a body member 4, an adjustable clamping member 5, which engages with the same at one side or face 6, an adjustable block 7, which engages with the body member 4 at the opposite side or face 8, a pivotal arm 9, which is operatively connected with the adjustable block 7 and with which the bracket or other device 3 is connected, and a locking device 10, whereby the several other members or elements are firmly secured together in their position of operative association and relative adjustment.

The preferred form of construction of the several members or elements is as follows:

The body member 4 consists of an elongated block 11, in which is formed an elongated transverse slot 12, which opens exteriorly through the opposed faces 6 and 8. The face 6 is provided with a longitudinal series of transverse serrations or teeth 13. At one end the block 11 is provided with a projecting head 14, extending beyond the face 6, and through said head passes a securing device 15, preferably a set-screw, which is arranged to bear upon the bar or support 2 and the longitudinal axis of which extends at an angle to the face 6 of the block 11.

The clamping member 5 consists of a block 16, provided upon one face, 17, with a series of transverse serrations or teeth 17^a, similar to and designed to coact with the serrations or teeth 13 upon the face 6 of the block 11. Centrally through the block 16 is formed a transverse bore 18, opening exteriorly at one end through the face 17 and at the other end through the opposite face 19. At one end the block 16 is provided with a projecting head 20, extending beyond the face 19 and which is arranged to bear upon or be engaged with the bar or support 2. The bore 18 is formed in position to register with the elongated slot 12 in the block 11 when the clamping member 5 is engaged with the body member 4.

The adjustable block 7 is provided with a plane face 21, designed to engage with the face 8 of the block 11 of the body member 4, which face 8 is also of plane formation. Opposite to the face 21 the block 7 is provided with a segmental face 22 of concave curvature, from which project two spaced heads or lugs 23, which are arranged in a central transverse plane of the block 7. The latter block is also provided with a transverse bore 24, opening exteriorly of the block 7 through the face 21 at one end and through the face 22 at the other end, said bore 24 being formed in position to register with the elongated slot 12 in the block 11 when the face 21 of the block 7 is engaged with the face 8 of the body member 4.

The pivotal arm 9 is provided at its inner end portion with two cheeks 25, which are spaced apart sufficiently to snugly receive

the heads or lugs 23 upon the block 7, and the peripheries 26 of said cheeks 25 are segmentally curved to exactly fit the curvature of the face 22 of the block 7.

The locking device 10 consists of an eye-bolt 27, the eye 28 of which is placed between the cheeks 25 of the pivotal arm 9, and the shank or stem 29 of which is passed through the bore 24 in the block 7, the elongated slot 12 in the block 11, and the bore 18 in the block 16. To firmly bind and secure the several elements or members in operative association, a nut 30 is applied to the end of the shank or stem 29 in engagement with the face 19 of the block 16, a pin or bolt 31 having been passed through alined bores 32 in the spaced cheeks 25 upon the pivotal arm 9 and through the eye 28 of the bolt 27. With the parts in this position, as shown in the drawings, the clamping member 5 is firmly engaged with the body member 4 by means of the co-engaging teeth or serrations 17^a and 13, respectively, which serrations prevent relative longitudinal movement of the clamping member 5 and the body member 4, and the bolt 27 prevents relative lateral movement of the clamping member 5 and the body member 4. The block 7 is also firmly engaged with the body member 4, and being rigidly connected with the clamping member 5 by the bolt 27 is also prevented from movement relative to the same and the body member 4. The pivotal arm 9 is also firmly engaged with the block 7 and positively secured in position of pivotal adjustment upon the pin or bolt 31 by frictional engagement of the curved spaced cheeks 25 and the similarly-curved face 22 of the block 7. The pivotal arm 9 is also prevented from longitudinal movement relative to the block 7 and the body member 4 by the bolt 27 and from similar relative lateral movement by the bolt 27 and the lugs or heads 23 upon the block and which project between the spaced cheeks 25.

The operation, method of use, and advantage of the improved adjustable securing means will be readily understood. By loosening the nut 30 upon the shank 29 of the bolt 27 the pivotal arm 9 may be adjusted longitudinally of the body member 4, together with the clamping member 5 and block 7. When the parts are in the desired position, the serrations 17^a and 13 upon the clamping member 5 and the body member 4, respectively, are again engaged. The pivotal arm 9 may now be elevated or depressed upon its pivotal support, consisting of the pin 31, and may be pivotally adjusted, in connection with the block 7, in a plane at right angles to the plane of its elevation or depression, the bolt 27 turning freely in the elongated slot 12 in the body member 4 and the bore 18 in the clamping member 5.

It will be seen that any device or article supported by the pivotal arm 9 will be capable of a wide range of variation of position, due to the universality of its adjustable connection with the body member 4. This feature adapts the improved securing means for use in installing auxiliary elements and devices in connection with machinery of various description—such, for instance, as ink-fountains for printing-presses, in which a wide variation of constructions are found and convenience in attachment and use are desired.

I do not desire to be understood as limiting myself to the specific construction and relative arrangement of parts as shown and described, but reserve the right to vary the same in adapting the improvements to varying conditions of use without departing from the spirit of the invention or the terms of the following claims.

Having thus described my invention, I claim and desire to secure by Letters Patent—

1. Improved securing means, comprising a body member, a clamping member adjustably connected with the body member, a pivotal arm operatively connected with the clamping member, and an unitary locking device for maintaining the clamping member and the pivotal arm in position of adjustment with respect to the body member.

2. Improved securing means, comprising a body member, a clamping member adjustably connected with the body member, an adjustable block, a pivotal arm, and locking means for maintaining the clamping member and the adjustable block in operative position in connection with the body member and the pivotal arm in frictional engagement with the adjustable block in position of pivotal adjustment.

3. Improved securing means, comprising a body member, a clamping member adjustably connected with the body member, a pivotal arm operatively connected with the clamping member, and locking means for maintaining the clamping member and the pivotal arm in operative position; said body member and said clamping member being each provided with a projecting head which heads are arranged relatively for engagement with a support, and one of which heads is provided with a securing device arranged to bear upon the support.

4. Improved securing means, comprising a body member, a clamping member adjustably connected with the body member, an adjustable block, a pivotal arm provided with a curved end portion arranged for frictional engagement with a correspondingly-curved surface portion of said adjustable block, and locking means for jointly maintaining the clamping member and the adjustable block in operative position in connection with the body member and the pivotal arm in position of pivotal adjustment.

5. Improved securing means, comprising a body member, a clamping member adjustably connected with the body member, an adjustable block, a pivotal arm provided with a curved end portion arranged for frictional

engagement with a correspondingly-curved surface portion of said adjustable block, and locking means for jointly maintaining the clamping member and the adjustable block in operative position in connection with the body member and the pivotal arm in position of pivotal adjustment; said locking means comprising an eyebolt with which said pivotal arm is connected and which passes through said adjustable block and said clamping member and through an elongated slot in said body member, and a nut which is applied to said bolt.

6. Securing means of the class described, comprising a body member, a clamping member, an adjustable block, a pivotal arm, and locking means for jointly maintaining the clamping member and adjustable block in operative position in connection with the body member and the pivotal arm in position of pivotal adjustment; said adjustable block being provided with a segmentally-curved face and said pivotal arm being provided with two spaced cheeks the peripheries of which are curved to fit the said facial curvature of said adjustable block; and said locking means comprising an eyebolt pivotally connected with and projecting between said spaced cheeks and which passes through said adjustable block and said clamping member and through an elongated slot in said body member, and a nut which is applied to said bolt.

In testimony whereof I have signed my name in the presence of the subscribing witnesses.

HERBERT M. PILKINGTON.

Witnesses:
J. L. PILKINGTON,
RAYMOND I. BLAKESLEE.